CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP.

23rd June 2017

Dear Sir,

Sub: Testing of Bituminous macadam & Bituminous concrete.

As requested, tests on physical properties were carried out for the Bituminous macadam & Bituminous concrete supplied by you, for the work of **'Providing asphalting to 8th B cross road in Ward no 04.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

AE W4

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TEST REPORT

GRADATION TEST ON BITUMINOUS MACADAM MIX GRADE - 2

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to 8th B cross road in Ward no 04
Name of the Agency	Sri. H. Suresh
Date of Testing	20/06/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2016)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-4 for BM Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
26.5	100	**100**	**Satisfies the requirement**
19	90-100	**98.2**	
13.2	56-88	**70.2**	
4.75	16-36	**20.1**	
2.36	4-19	**16.4**	
0.3	2-10	**8.4**	
0.075	0-8	**5.3**	

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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Quality Manager

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TEST REPORT

GRADATION TEST ON BITUMINOUS MACADAM MIX GRADE - 2

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to 8th B cross road in Ward no 04
Name of the Agency	Sri. H. Suresh
Date of Testing	20/06/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2016)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-4 for BM Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
26.5	100	**100**	**Satisfies the requirement**
19	90-100	**94.2**	
13.2	56-88	**70.2**	
4.75	16-36	**23.1**	
2.36	4-19	**15.3**	
0.3	2-10	**7.4**	
0.075	0-8	**2.8**	

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TEST REPORT

DETERMINATION OF BINDER CONTENT FROM BITUMINOUS PAVING MIXTURE FOR QUALITY CONTROL - BITUMINOUS MACADAM MIX-GRADE 2

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to 8th B cross road in Ward no 04
Name of the Agency	Sri. H. Suresh
Date of Testing	20/06/2017
Technical Reference	ASTM: D2172/D2172M-17 - Test Method A - Centrifuge Extraction

Specification: As Per MORTH (4th Revision) Table 500-4 BM-Grade -2, Bitumen Content for BM Grade-2 is 3.3 % TO 3.5 %

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, W_1 g	2000.0
2	Total Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	1932.0
3	Total weight of Bitumen extracted from the mixture, W_3 g = (W_1-W_2) g	68.0
4	Bitumen content in %, (W_3/W_1) %	3.4

Remarks	**Satisfies the requirement**

Note:

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TEST REPORT

DETERMINATION OF BINDER CONTENT FROM BITUMINOUS PAVING MIXTURE FOR QUALITY CONTROL - BITUMINOUS CONCRETE MIX-GRADE 2

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to 8th B cross road in Ward no 04
Name of the Agency	Sri. H. Suresh
Date of Testing	23/06/2017
Technical Reference	ASTM: D2172/D2172M-17 - Test Method A - Centrifuge Extraction

Specification: As Per MORTH (4th Revision) Table 500-18, Bitumen Content for BC Grade-2 is 5% to 7%

Sl. No.	Description	Values
1	Weight of bituminous mixture before extraction test, W_1 g	2000.0
2	Total Weight of mineral aggregate obtained from centrifuge extractor, W_2 g	1882.0
3	Total weight of Bitumen extracted from the mixture, W_3 g = (W_1-W_2) g	118.0
4	Bitumen content in %, (W_3/W_1) %	5.9

Remarks	Satisfies the requirement

Note:

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TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to 8th B cross road in Ward no 04
Name of the Agency	Sri. H. Suresh
Date of Testing	23/06/2017
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2016)

	Sample-1		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirement**
13.2	79-100	**98.5**	
9.5	70-88	**75.2**	
4.75	53-71	**61.2**	
2.36	42-58	**50.3**	
1.18	34-48	**36.8**	
0.6	26-38	**30.4**	
0.3	18-28	**24.7**	
0.15	12-20	**15.8**	
0.075	4-10	**5.5**	

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TEST REPORT

GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to 8th B cross road in Ward no 04
Name of the Agency	Sri. H. Suresh
Date of Testing	23/06/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2016)

	Sample-2		
IS Sieve Designation (mm)	**% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2**	**Actual % By Weight Passing IS Sieve**	**Remarks**
19	100	**100**	**Satisfies the requirement**
13.2	79-100	**97.4**	
9.5	70-88	**84.4**	
4.75	53-71	**64.7**	
2.36	42-58	**48.3**	
1.18	34-48	**41.1**	
0.6	26-38	**30.6**	
0.3	18-28	**21.4**	
0.15	12-20	**17.3**	
0.075	4-10	**8.2**	

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T-2654

To,

Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP.

15th June 2017

Dear Sir,

Sub: Testing of Wet Mix Macadam.

As requested, tests on physical properties were carried out for the Wet Mix Macadam supplied by you, for the work of **'Providing asphalting to 8th B cross road in Ward no 04.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON WET MIX MACADAM

Name & Address of the Customer	AEE,Yelahanka Satellite Town Sub Division, BBMP
Name of Work	Providing asphalting to 8th B cross road in Ward no 04
Name of the Agency	Sri. H. Suresh
Date of Testing	15/06/2017
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2016)

IS Sieve Designation (mm)	% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 400-11 for WMM	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	Satisfies the requirement
45	95-100	97.5	
22.4	60-80	75.2	
11.2	40-60	46.3	
4.75	25-40	32.1	
2.36	15-30	25.3	
0.6	8-22	18.3	
0.075	0-8	6.7	

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